

Human Exposure Report

Application No.: FYCR2206000219AT
Applicant: Very Great, Inc DBA Courant
Address of Applicant: 228 Park Ave South PMB 53363 New York 10003 United States
Manufacturer: Very Great, Inc DBA Courant
Address of Manufacturer: 228 Park Ave South PMB 53363 New York 10003 United States
Equipment Under Test (EUT):
EUT Name: MAG:1 CLASSICS
Model No.: CR-MAG1-BK-BK, CR-MAG1-GR-GR, CR-MAG1-WH-SL
 CR-MAG1-BR-ORB, CR-MAG1-TN-PG ♣
 ♣ Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark: Courant
FCC ID: 2ARIH-MAG1
Standards: 47 CFR PART 1, Subpart I, Section 1.1310
 47 CFR PART 2, Subpart J, Section 2.1091
Date of Receipt: 2022-06-09
Date of Test: 2022-06-13 to 2022-06-17
Date of Issue: 2022-06-28

Test Result :	Pass*
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* In the configuration tested, the EUT complied with the standards specified above



EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-06-28		Original

Authorized for issue by:			
		<i>Tree Zhan</i>	
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		Tree Zhan/Project Engineer	
		<i>Winkey Wang</i>	
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		Winkey Wang/Reviewer	



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3 General Information

3.1 Details of E.U.T.

Power supply:	Model: CR-MACI-TN-PC Input: DC 5V/2A,9V/2.2A Wireless Output:15W(Max)
Cable(s):	USB-C to USB-C 150cm unshielded
Operation frequency:	110.6kHz to 138.4kHz
Modulation type:	Load modulation
Antenna type:	Loop Antenna

Declaration of EUT Family Grouping:

Model No.: CR-MAG1-BK-BK, CR-MAG1-GR-GR, CR-MAG1-WH-SL, CR-MAG1-BR-ORB, CR-MAG1-TN-PG

Only the model CR-MAG1-BK-BK was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on shape and color of the shell.



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3.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Mobile Phone	HUAWEI	LYA-AL00	REF. No.SEA16C00
iPhone 13	Apple	MLE03ZA/A	REF. No.SEA16Q01
Mobile Phone	SAMSUNG	SM-G9810	REF. No.SEA16K00
E-loading	SGS	N/A	REF. No.SEA42A00



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3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

3.5 Deviation from Standards

None.

3.6 Abnormalities from Standard Conditions

None.



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4 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Due date
1	3m Anechoic Chamber	CRT	N/A	SEM001-13	2022-07-12
2	Electric and Magnetic Field Analyzer	Narda	EHP-200AC	SEM022-20	2023-04-01

Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	00	Charge mode_Keep the EUT charging(5W)
Pre-scan	01	Charge mode_Keep the EUT charging(7.5W)
Pre-scan	02	Charge mode_Keep the EUT charging(10W)
Final test	03	Charge mode_Keep the EUT charging(15W)



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5 Test Results

5.1 RF Exposure test

Test Requirement: 47 CFR PART 1, Subpart I, Section 1.1310

47 CFR PART 2, Subpart J, Section 2.1091

Measurement Distance: 15cm

Limit:

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz
 *=Plane-wave equivalent power density
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

5.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.9 % RH

Atmospheric Pressure: 1015 mbar



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This device has been tested the worst status of full load and the device has been tested with mobile phone at zero charge, intermediate charge, and full charge.

5.1.2 Measurement Data

Magnetic Field Emissions

**Input Voltage=DC 9V;
Magnetic Field Emissions**

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result (A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			unload	Half load	full load		
114 kHz which is the worst case within the operation frequency range	15	Side 1	0.102	0.119	0.139	0.815	0.163
		Side 2	0.106	0.120	0.145		
		Side 3	0.098	0.109	0.132		
		Side 4	0.110	0.128	0.146		
		Top	0.101	0.117	0.134		

Magnetic Field Emissions

Operation frequency	Test Distance (cm)	Test Position	Probe Measure Result(A/m)			50 % Limit (A/m)	10 % Limit (A/m)
			zero charge	intermediate charge	full charge		
128 kHz which is the worst case within the operation frequency range	15	Side 1	0.138	0.116	0.092	0.815	0.163
		Side 2	0.147	0.124	0.098		
		Side 3	0.131	0.110	0.088		
		Side 4	0.155	0.130	0.104		
		Top	0.138	0.116	0.092		

- End of the Report -



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